

FROM: Philadelphia, Pa. 19101		DATE OF DOCUMENT: 4-15-66	DATE RECEIVED: 4-18-66	NO.: 1101
TO: T. P. Handley		LTR. X	MEMO:	REPORT:
Don P. Harmon		ORIG. 1	OTHER: 2 cys. reproduced	
CLASSIF. U		ACTION NECESSARY <input type="checkbox"/>	CONCURRENCE <input type="checkbox"/>	DATE ANSWERED:
POST OFFICE REG. NO.		NO ACTION NECESSARY <input type="checkbox"/>	COMMENT <input type="checkbox"/>	BY:
DESCRIPTION: (Must Be Unclassified)		FILE CODE: 40-7344		
Ltr. trans:		REFERRED TO	DATE	RECEIVED BY
ENCLOSURES: (1cys. rec'd) Form A C-2 req. that SUB-831 b amended to cover 150 lbs. of depleted U which will be used as a Sandia supplied sealed component for experimental studies in Nevada Test Site.... Resume on Mr. Roland A. Lincoln who is the supervisory personnel for this Lic.		Vusebauer	4/19	
REMARKS: Distribution: 1-PDM cy.		DO NOT REMOVE		
		ACKNOWLEDGED		1101

U. S. ATOMIC ENERGY COMMISSION

MAIL CONTROL FORM

FORM AEC-326 (8-60)

THE ASSISTANT  
 ATTORNEY GENERAL  
 DEPARTMENT OF JUSTICE  
 WASHINGTON, D.C. 20530

NATIONAL ARCHIVES  
 COLLEGE PARK, MARYLAND  
 20740

FEDERAL BUREAU OF INVESTIGATION  
 WASHINGTON, D.C. 20535

Information in this record was deleted  
 in accordance with the Freedom of Information  
 Act, exemptions b  
 FOIA- 8007-304

SEARCHED  
 SERIALIZED  
 INDEXED  
 FILED  
 APR 19 1966  
 FBI - PHILADELPHIA

7-47

**GENERAL  ELECTRIC  
COMPANY**

3198 CHESTNUT STREET, PHILADELPHIA, PENNA. 19101 . . . TELEPHONE 823-1000

**MISSILE AND  
SPACE DIVISION**

**RE-ENTRY SYSTEMS  
DEPARTMENT**

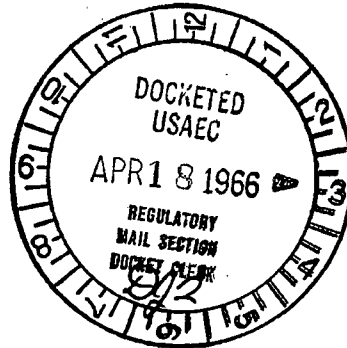
April 15, 1966

United States Atomic Energy Commission  
Source & Special Nuclear Materials Branch  
Division of Materials Licensing  
Washington, D. C. 20545

Attention: Mr. Don F. Harmon

Ref: DML:KEL - 10/21/65

40-7344  
SUB-831 File Copy



APR 19 1966  
FM 1 56

Dear Mr. Harmon:

I am enclosing Form AEC-2 requesting an amendment to our Source Material License No. SUB-831. Your efforts in processing this amendment would be appreciated.

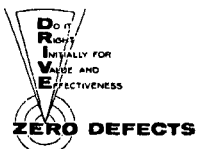
If you have any questions, please feel free to call me collect.

Very truly yours,

T. P. Handley, Manager  
Security, Safety and Plant Protection  
Room 6112 - Exts. 3395, 96, 97

TPH:mca

Encl.



**ACKNOWLEDGED**



1101

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

<p>1. (Check one)</p> <p><input type="checkbox"/> (a) New license</p> <p><input checked="" type="checkbox"/> (b) Amendment to License No. <b>SUB-831</b></p> <p><input type="checkbox"/> (c) Renewal of License No. _____</p> <p><input type="checkbox"/> (d) Previous License No. _____</p>		<p>2. NAME OF APPLICANT <b>General Electric Co.</b></p> <p><b>Re-Entry System Department</b></p> <p>3. PRINCIPAL BUSINESS ADDRESS</p>																	
<p>4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p><b>3198 Chestnut Street, Philadelphia, Penna.</b></p>																			
<p>5. BUSINESS OR OCCUPATION</p> <p><b>Missile Re-Entry System</b></p>		<p>6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP</p> <p><b>N/A</b></p>	<p>(b) AGE</p> <p><b>N/A</b></p>																
<p>7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p><b>This material will be used as a Sandia supplied sealed component for experimental studies in Navado Test Site.</b></p>																			
<p>8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) TYPE</th> <th style="width:25%;">(b) CHEMICAL FORM</th> <th style="width:25%;">(c) PHYSICAL FORM (Including % U or Th.)</th> <th style="width:25%;">(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)</th> </tr> </thead> <tbody> <tr> <td>NATURAL URANIUM</td> <td></td> <td></td> <td></td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td></td> <td><b>sealed container by Sandia Corp. surface reading of less than 1 MR/hr.</b></td> <td><b>150 pounds.</b></td> </tr> <tr> <td>THORIUM (ISOTOPE)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)</p> <p><b>150 pounds</b></p>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)	NATURAL URANIUM				URANIUM DEPLETED IN THE U-235 ISOTOPE		<b>sealed container by Sandia Corp. surface reading of less than 1 MR/hr.</b>	<b>150 pounds.</b>	THORIUM (ISOTOPE)			
(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)																
NATURAL URANIUM																			
URANIUM DEPLETED IN THE U-235 ISOTOPE		<b>sealed container by Sandia Corp. surface reading of less than 1 MR/hr.</b>	<b>150 pounds.</b>																
THORIUM (ISOTOPE)																			
<p>9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES.</p> <p><b>The material will be received from the Sandia Corp. in a sealed condition surface reading of no more than 1 MR/hr. This item will be mated without modification to the matching General Electric hardware in an assembly area and the total package shipped to the Navado Test Site.</b></p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL).</p> <p><b>Mr. Roland A. Lincoln is designated as the supervisory Personnel for this item, see attached resume.</b></p>																			
<p>11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate. The description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument).</p> <p style="text-align: center;"><b>SAME</b></p>																			
<p>(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier).</p> <p style="text-align: center;"><b>SAME</b></p>																			

RECEIVED  
 LABORATORY  
 SECTION  
 8 PM 1 57  
 1101

11(c). VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INCLUDING PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS, MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PROCEDURES FOR TESTING SUCH EQUIPMENT.

N/A

DOCKET NO. 40-7344

File Copy

12. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

SAME

(b) EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.

SAME

(c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

SAME

13. WASTE PRODUCTS: If none will be generated, state "None" opposite (a), below. If waste products will be generated, check here  and explain on a supplemental sheet:

- (a) Quantity and type of radioactive waste that will be generated. **NONE**
- (b) Detailed procedures for waste disposal.

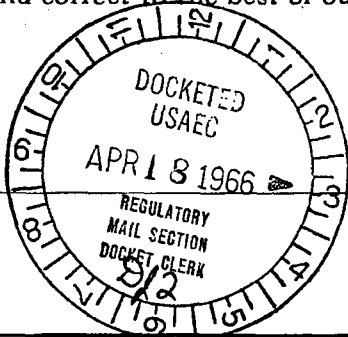
14. IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:

- (a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.
- (b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.
- (c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.
- (d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

**CERTIFICATE**

(This item must be completed by applicant)

15. The applicant, and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.



Dated

**General Electric Company**  
**Re-Entry Systems Department**

(Applicant named in Item 2)

BY:

*T. P. Handley*  
(Print or type name under signature)

**T. P. Handley, Manager**  
**Security, Safety & Plant Protection**

(Title of certifying official authorized to act on behalf of the applicant)

WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

**ACKNOWLEDGED**

11(c). VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INCLUDING PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS, MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PROCEDURES FOR TESTING SUCH EQUIPMENT.

N/A

12. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

SAME

(b) EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.

SAME

(c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

SAME

13. WASTE PRODUCTS: *If none will be generated, state "None" opposite (a), below. If waste products will be generated, check here  and explain on a supplemental sheet:*

- (a) Quantity and type of radioactive waste that will be generated. NONE
- (b) Detailed procedures for waste disposal.

14. IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:

- (a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.
- (b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.
- (c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (*Specify instrument used, date of calibration and calibration technique used*) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.
- (d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

### CERTIFICATE

*(This item must be completed by applicant)*

15. *The applicant, and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.*

General Electric Company  
Re-Entry Systems Department

*(Applicant named in Item 2)*

Dated \_\_\_\_\_

BY: T. P. Handley  
*(Print or type name under signature)*

T. P. Handley, Manager  
Security, Safety & Plant Protection

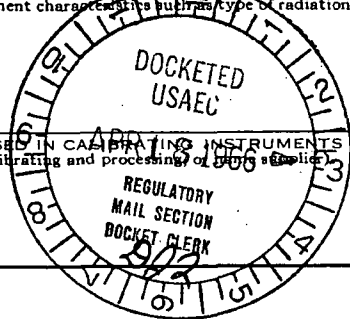
*(Title of certifying official authorized to act on behalf of the applicant)*

**WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.**

UNITED STATES ATOMIC ENERGY COMMISSION  
**APPLICATION FOR SOURCE MATERIAL LICENSE** **DOCKET NO. 40-7344**

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

1. (Check one) <input type="checkbox"/> (a) New license <input checked="" type="checkbox"/> (b) Amendment to License No. <b>SUB-831</b> <input type="checkbox"/> (c) Renewal of License No. _____ <input type="checkbox"/> (d) Previous License No. _____		2. NAME OF APPLICANT <b>General Electric Co.</b> <b>Re-Entry System Department</b>	
3. PRINCIPAL BUSINESS ADDRESS			
4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED <b>3198 Chestnut Street, Philadelphia, Penna.</b>			
5. BUSINESS OR OCCUPATION <b>Missile Re-Entry System</b>		6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP <b>N/A</b>	(b) AGE <b>N/A</b>
7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED <b>This material will be used as a Sandia supplied sealed component for experimental studies in Navado Test Site.</b>			
8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE			
(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)
NATURAL URANIUM			
URANIUM DEPLETED IN THE U-235 ISOTOPE		<b>sealed container by Sandia Corp. surface reading of less than 1 MR/hr.</b>	<b>150 pounds.</b>
THORIUM (ISOTOPE)			
(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds) <b>150 pounds</b>			
9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES. <b>The material will be received from the Sandia Corp. in a sealed condition surface reading of no more than 1 MR/hr. This item will be mated without modification to the matching General Electric hardware in an assembly area and the total package shipped to the Navado Test Site.</b>			
10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL). <b>Mr. Roland A. Lincoln is designated as the supervisory Personnel for this item, see attached resume.</b>			
11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate. The description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument). <b>SAME</b>			
(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing of badges). <b>SAME</b>			



**ACKNOWLEDGED**

ROLAND A. LINCOLN

BORN: (b)(6)

BEE - CORNELL UNIVERSITY (b)(6)

MSEE - UNIVERSITY OF NEW MEXICO 1960

*Ex 4*

File Copy

DOCKET NO. 40-7344

General Electric Company  
Re-Entry Systems Department  
Missile & Space Division  
Philadelphia, Pennsylvania

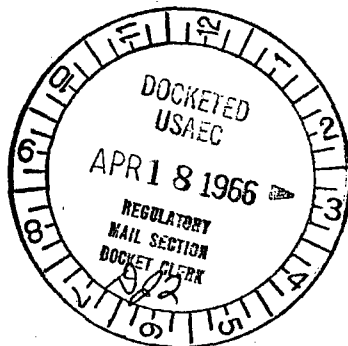
July 1965 to Present

Project Officer in charge of the three experiments to be conducted on underground events at the Nevada Test Site.

Sandia Corporation  
Albuquerque, New Mexico

July 1955 to June 1965

Supervisor of Radiation Effects on Explosive Components Section of the Explosive Component Development Division. <sup>Lost 3 years</sup> In charge of experimental studies on the radiation effects on explosives. This involved supervising three reactor tests on explosives and participation in four underground nuclear tests at Nevada Test Site. Responsibility included the actual recovery and disassembly of all experimental hardware from these tests.



APR 18 1966  
REGULATORY MAIL SECTION  
DOCKET CLERK

ACKNOWLEDGED